

Title (en)

ELECTRO-OPTIC MODULATOR AND ELECTRO-OPTIC DISTANCE-MEASURING DEVICE

Title (de)

ELEKTROOPTISCHER MODULATOR UND ELEKTROOPTISCHE ABSTANDSMESSVORRICHTUNG

Title (fr)

MODULATEUR ÉLECTRO-OPTIQUE ET DISPOSITIF DE MESURE DE DISTANCE ÉLECTRO-OPTIQUE

Publication

**EP 2839334 A1 20150225 (EN)**

Application

**EP 13709734 A 20130306**

Priority

- EP 12405037 A 20120416
- CH 2013000035 W 20130306
- EP 13709734 A 20130306

Abstract (en)

[origin: EP2653908A1] An electro-optic modulator comprises a waveguide (2) of a nonlinear optical material and an electrode line (3) for generating an electrical field in a modulating region (17) of the waveguide (2) when a voltage is applied to the electrode line (3), thereby modulating light passing through the waveguide (2). Therein #ç the forward electro-optic response of the modulating region (17) is the same as the backward electro-optic response; and #ç the electro-optic response has a band-pass or a low-pass characteristic. A distance measuring device comprises a light source (101) emitting light, and such an electro-optic modulator arranged such that the emitted light passes through the electro-optic modulator in a first direction before being emitted from the distance measuring device, and after being reflected from a target passes through the electro-optic modulator in a second direction which is opposite to the first direction.

IPC 8 full level

**G02F 1/035** (2006.01); **G01S 17/32** (2020.01); **G02F 1/03** (2006.01); **G02F 1/225** (2006.01)

CPC (source: EP US)

**G01B 9/02049** (2013.01 - US); **G01B 11/14** (2013.01 - US); **G01S 7/4812** (2013.01 - EP US); **G01S 17/32** (2013.01 - US); **G01S 17/36** (2013.01 - EP US); **G02F 1/0356** (2013.01 - EP US); **G02F 1/2255** (2013.01 - EP US); **G02F 1/365** (2013.01 - EP US); **G02F 1/0316** (2013.01 - EP US)

Citation (search report)

See references of WO 2013155636A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2653908 A1 20131023**; CN 104246584 A 20141224; CN 104246584 B 20180918; EP 2839334 A1 20150225; EP 2839334 B1 20201230; JP 2015519598 A 20150709; JP 6297024 B2 20180320; US 2015070709 A1 20150312; US 9810964 B2 20171107; WO 2013155636 A1 20131024

DOCDB simple family (application)

**EP 12405037 A 20120416**; CH 2013000035 W 20130306; CN 201380020021 A 20130306; EP 13709734 A 20130306; JP 2015506057 A 20130306; US 201314394206 A 20130306